HATCH MECHANISM MALFUNCTION

OBJECTIVE:
Identify failed Hatch mechanism.

LOCATION:
Installed: U.S. Common Hatch Rib side
Stowed: None

DURATION:
30 minutes

TOOLS REQUIRED:
None

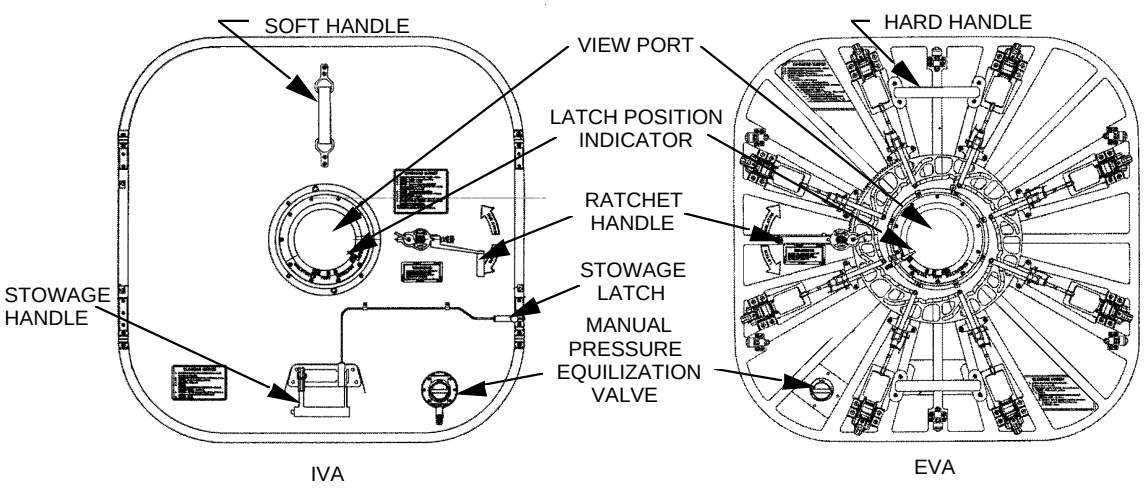

Figure 1.- Dome/Rib.

WARNING

To ensure crewmembers have immediate ingress/egress between modules in case of emergency, Hatch latches are open.

REMOVE

1. Close, but do not place Hatch against bulkhead.

2. Check Hatch for obvious bent or broken parts.

3. If no defect found, continue with procedure.

   If defect found, use appropriate maintenance procedure.

NOTE
The next steps are to exercise Hatch mechanism while attempting to identify failed ORU.

4. Cycle hatch crank back and forth to attempt to identify failed ORU.

5. If unable to identify failed ORU, continue with procedure.
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   If able to identify failed ORU, use appropriate maintenance procedure.

6. Disconnect tension rods (eight) from drive mechanism by removing pip pins.

7. Secure loose ends of tension rods (eight) away from drive mechanism with Tape.

8. Cycle crank.

9. If crank does not bind, jam or have any other defect, continue procedure.
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   If crank binds, jams or has any other defect, attempt to identify if pinion gear or drive mechanism is failed.

10. If pinion gear is failed, remove and replace Hatch.
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    If pinion gear is not failed, remove and replace hatch drive mechanism.

NOTE
After each installation of tension rod, hatch crank is cycled to determine if newly installed tension rod/latch assembly is defective.

11. If failed tension rod/latch assembly determined, label failed tension rod/latch assembly.

12. Install tension rods one at a time (eight) to determine if they have failed.

13. Remove, repair, replace failed tension rod/latch assembly.